

Title (en)

Switch controlled, zone-type heating cable and method.

Title (de)

Schalter-gesteuertes zonenartiges Heizkabel und Verfahren.

Title (fr)

Câble chauffant de type zone commandé par commutateur et procédé.

Publication

EP 0476637 A1 19920325 (EN)

Application

EP 91115902 A 19910919

Priority

US 58644190 A 19900920

Abstract (en)

A parallel, zone-type heating cable wherein thermally-controlled ferrite reed switches in each zone regulate current flow to heating elements aligned in parallel with each other. Two parallel conductors deliver current to the switches and the heating elements. A dielectric insulation material separates the conductors from each other and the heating elements. The heating cable may further include a component having a particular temperature coefficient of resistance aligned in parallel with the switch to further regulate current flow to a positive but lesser level when the switch is open.

IPC 1-7

H05B 3/56

IPC 8 full level

H05B 3/00 (2006.01); **H05B 3/56** (2006.01)

CPC (source: EP KR US)

H05B 3/00 (2013.01 - KR); **H05B 3/56** (2013.01 - EP US)

Citation (search report)

- [A] US 4304044 A 19811208 - LEE MAW H
- [AP] GB 2236236 A 19910327 - THERMON MFG CO [US]
- [A] US 4891500 A 19900102 - BLOORE FREDERICK W [GB]
- [A] US 4100673 A 19780718 - LEAVINES JOSEPH E

Cited by

EP1199727A3

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0476637 A1 19920325; EP 0476637 B1 19950125; AT E117863 T1 19950215; AU 646498 B2 19940224; AU 8461891 A 19920326; CA 2051334 A1 19920321; CA 2051334 C 19970624; DE 69106989 D1 19950309; DE 69106989 T2 19950907; JP H04272680 A 19920929; KR 920007492 A 19920428; MX 9101178 A 19920504; US 5512732 A 19960430

DOCDB simple family (application)

EP 91115902 A 19910919; AT 91115902 T 19910919; AU 8461891 A 19910919; CA 2051334 A 19910913; DE 69106989 T 19910919; JP 26042191 A 19910912; KR 910016356 A 19910919; MX 9101178 A 19910919; US 189493 A 19930107